DLZ Ohio, Inc. * 6121 Huntley Road, Columbus, Ohio 43229 * (614) 888-0040

Client: ms consultants | *Project:* FRA-70-8.93 | *Job No.* 0221-1004.01

LOG OF: Boring B-032-0-08 | *Location:* Sta. 196+22.20, 79.7' RT., BL I-70 EB | *Date Drilled:* 7/8/2008 to 7/15/2008

WATER OBSERVATIONS:
Water seepage at: 47.0'
Water level at completion: 25.7' (includes drilling water)

FIELD NOTES:
3.25" diameter hollowstem augers to 120.5';
4.0" diameter flush joint casing from 120.5' to 128.5'.

Depth (ft)	Elev. (ft)	Blows per 6"	Recovery	Sample No. Drive	Sample No. Press / Core	Hand Penetrometer (tsf)	DESCRIPTION	Graphic Log	GRADATION % Aggregate	% C. Sand	% M. Sand	% F. Sand	% Silt	% Clay	STANDARD PENETRATION (N60) / Natural Moisture Content, % - ● / PL ⊢ LL / Blows per foot - ○ / Non-Plastic - NP (10 20 30 40)
	726.4														
		50/1	1	11		--	Hard gray SILT AND CLAY (A-6a), some fine to coarse sand, trace gravel; damp.								50+
		50/4	0	12		--									50+
30		50/1	0	13		--									50+
		50/3	1	14		--									50+
35															
36.0	715.4														
		10 24 45	18	15		4.5+	Hard gray SANDY SILT (A-4a), some to "and" fine to coarse sand, little gravel; damp.		16	20	---	23	26	15	73
40		11 17 28	18	16		4.5+									
		11 50/4	10	17		4.5+									50+
45															
		32 50/3	9	18		4.5+	@ 48.5'-49.3', contains occasional thin sand seams.								50+
50	701.4														